



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**

**AUG 7 2000**

400 Seventh Street, S.W.  
Washington, D.C. 20590

DOT-E 10555  
(FIFTH REVISION)

EXPIRATION DATE: July 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Pacific Scientific Company  
Duarte, CA
2. PURPOSE AND LIMITATION:
  - a. This exemption authorizes the manufacture, mark, sale and use of a non-DOT specification cylinder conforming with all regulations applicable to a DOT specification 4B cylinder, except as specified herein, for the transportation in commerce of the materials authorized by this exemption. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.304(a)(1) and § 175.3 in that a non-DOT specification packaging is authorized as prescribed herein.
5. BASIS: This exemption is based on the application of Pacific Scientific Company dated July 20, 2000, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

| Proper Shipping Name/<br>Hazardous Materials Description   | Hazard<br>Class/<br>Division | Identi-<br>fication<br>Number | Packing<br>Group |
|--|------------------------------|-------------------------------|------------------|
| Bromotrifluoromethane  | 2.2                          | UN1009                        | N/A              |
| Compressed gases, n.o.s.<br>(contains Tetrafluoroethane,<br>Nitrogen, and Ammonium<br>Polyphosphate in suspension) | 2.2                          | UN1956                        | N/A              |

7. PACKAGING AND SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification cylinder, girth brazed steel, having a maximum water capacity of 100 cubic inches and a maximum service pressure of 500 psig. Each cylinder must be as shown on HTL Drawing No. 30100022 or 30100060, on file with the Office of Hazardous Materials Exemptions and Approvals. Cylinders must be in conformance with DOT Specification 4B (§§ 178.35 and 178.50) except as follows:

§ 178.35(f) Markings.

(1) \* \* \*

(i) The marking "DOT-E 10555" followed by the service pressure" must be substituted for the "DOT-4B" specification marking.

§ 178.50(e) Welding or brazing.

The attachment of a mounting bracket to the top, bottom or side of cylinders by welding or brazing is authorized: Provided that the bracket and the portion of the container to which it is attached are made of weldable or brazeable steel, having a carbon content not exceeding 0.25 percent.

b. TESTING - Retest and reinspection must be in accordance with § 173.34(e), as prescribed for DOT Specification 4B cylinders.

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8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each packaging manufactured under the authority of this exemption must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

f. Cylinders are for aircraft use only.

g. Cylinders must be shipped in strong outside packagings in conformance with § 173.301(k).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo aircraft only, and passenger-carrying aircraft.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

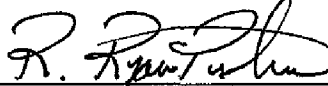
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.

  
for Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.  
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: CWFREEMAN/alb